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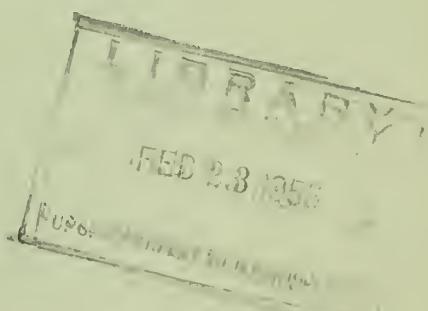
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Checking Mountain Soil Moisture Under the Snow, an important factor in snowmelt runoff.

Federal-State Cooperative
Snow Surveys and Water Supply Forecasts
for

ARIZONA



SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY
AND WATER SUPPLY FORECAST REPORTS:

Snow surveys in the West are conducted each year at more than 1200 snow courses. Basin and Province or State snow survey reports summarizing the results of the measurements and forecasts of seasonal runoff and water supply are issued by the Soil Conservation Service, U. S. Department of Agriculture and some of its co-operators; the Water Rights Branch of the British Columbia Department of Lands and Forests; and the California Division of Water Resources.

Copies of the various federal-state cooperative snow survey reports listed below may be secured by writing to:

Head, Water Supply Forecasting Section
Soil Conservation Service
209 S. W. 5th Avenue
Portland 4, Oregon

BASIN REPORTS:

Colorado, Rio Grande,... Issued monthly February through May by SCS and and Platte-Arkansas Colorado Experiment Station, Fort Collins, Colorado.* River Basins

Columbia River..... Issued monthly January through May by Soil Conservation Service, Boise, Idaho.*

Upper Missouri..... Issued monthly February through May by SCS and River Basin Montana Agricultural Experiment Station, Bozeman, Montana.*

West-Wide Water..... Issued April 1 by Soil Conservation Service and Supply Outlook Cooperators, Portland, Oregon.

STATE REPORTS:

Arizona..... Issued semi-monthly January 15 through April 1 by SCS and Salt River Valley Water Users Association, Phoenix, Arizona.*

Nevada..... Issued monthly February through April by SCS and Nevada State Engineer, Reno, Nevada.*

Oregon..... Issued monthly January through May by SCS, Portland, Oregon, and Oregon Agricultural Experiment Station.*

Utah..... Issued monthly January through May by SCS, Salt Lake City, Utah, and State Engineer of Utah and Utah Agricultural Experiment Station.*

Washington..... Issued monthly February through May by SCS, Spokane, Washington, and State Department of Conservation and Development.*

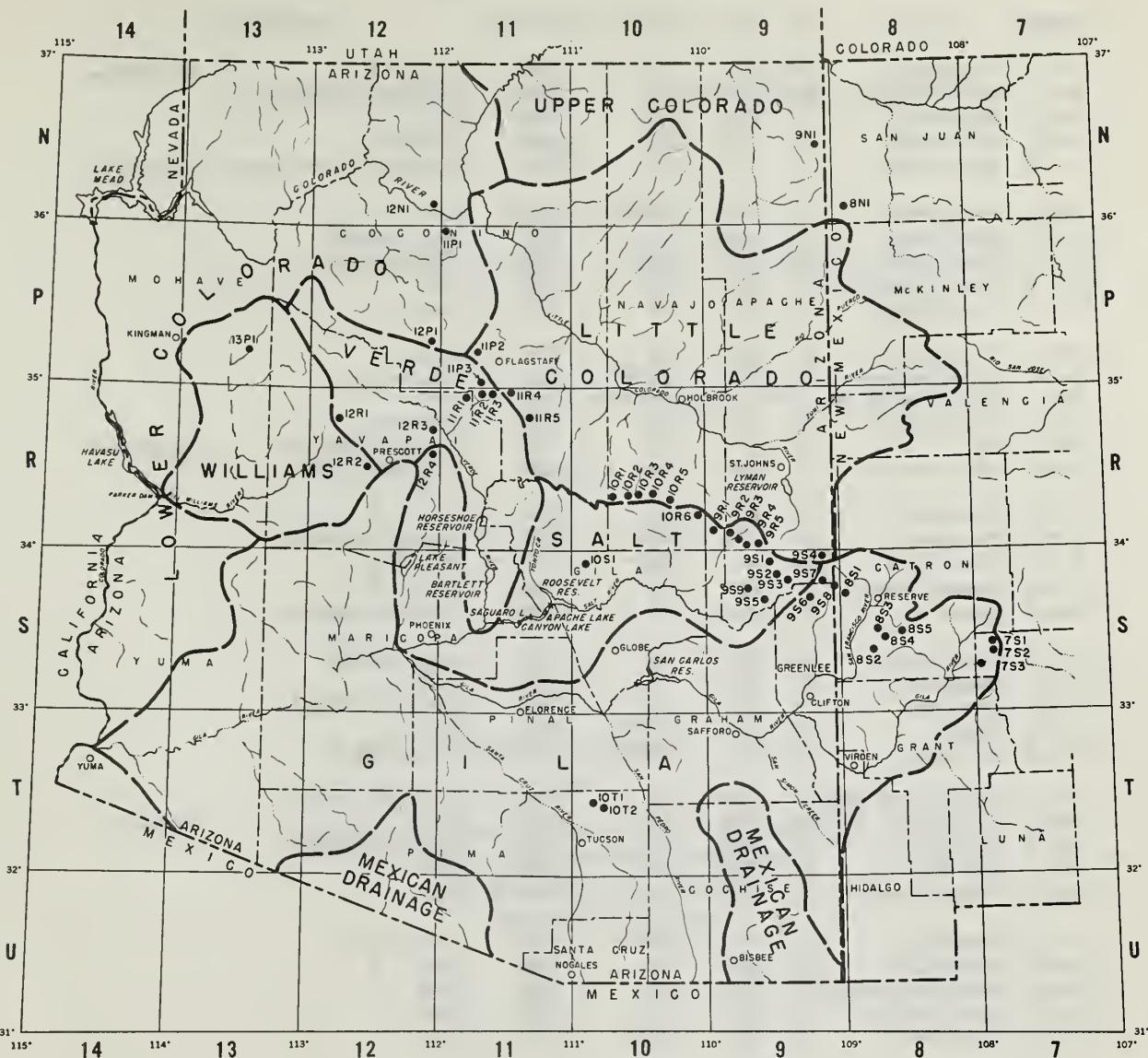
Wyoming..... Issued monthly February through May by SCS, Casper, Wyoming, and State Engineer of Wyoming.*

*Special reports are issued as needed.

The British Columbia reports are issued February 1 through June 1 and may be secured from Comptroller, Water Rights Branch, Department of Lands and Forests, Parliament Buildings, Victoria, B.C.

The California reports are issued monthly February 1 through May 1 and may be secured from Division of Water Resources, California Department of Public Works, Sacramento, California.

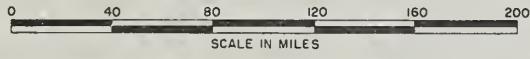
The annual water supply forecasts of the Weather Bureau are available in monthly bulletins published from January through May. These bulletins entitled, "Water Supply Forecasts for the Western United States" may be obtained from River Forecast Center, Weather Bureau, 712 Federal Office Building, Kansas City 6, Missouri.



**ARIZONA
COOPERATIVE SNOW SURVEYS**
SNOW COURSES AND DRAINAGE BASINS
JANUARY 1956

SNOW COURSES AND DRAINAGE BASINS

JANUARY 1956



INDEX TO SNOW COURSES

NUMBER*	NAME	SEC	TWP	RGE**	ELEVATION	RIVER BASIN
11-P-3	Antelope Park	29	19N	8E	7300	Verde # Discontinued
9-S-1	Baldy (p)	28	7N	27E	9000	Salt-Little Colorado
10-T-1	Bear Wallow	6	12S	16E	8100	Gila
9-S-6	Beaver Head	13	4N	30E	8000	Salt-Frisco
9-S-3	Big Lake Knoll	2	5N	28E	8800	Salt-Frisco-Little Colorado .. Discontinued
7-S-3	Black Canyon	8	13S	11W***	6790	Gila
12-N-1	Bright Angel	34	33N	3E	8400	Lower Colorado
12-R-1	Camp Wood	3	16N	6W	5700	Williams-Verde
10-R-3	Canyon Creek (s)	18	11N	15E	7500	Salt
11-R-2	Casner Park (s)	19	18N	8E	6950	Verde
12-P-1	Chalender (s)	27	22N	3E	7100	Verde
8-S-3	Corner Mountain	7	10S	17W***	8850	Gila-Frisco
9-S-9	Corn Creek (p) Lat. 33° 45' N. Long. 109° 45' W. §				7730	Salt
9-S-7	Coronado Trail	26	5N	30E	8000	Salt-Frisco
10-R-2	Elk	31	11N	14E	7600	Salt-Little Colorado Discontinued
10-R-6	Forest Dale (s)	2	9N	21E	6000	Salt-Little Colorado
11-P-2	Fort Valley	22	22N	6E	7350	Verde #
9-R-5	Ft. Apache	18	7N	27E	9160	Salt-Little Colorado
8-S-1	Frisco Divide	31	6S	20W***	8000	Frisco-Gila
12-R-4	Gaddes Canyon	11	15N	2E	7600	Verde #
10-R-5	Gentry	36	11N	15E	7600	Salt-Little Colorado
11-P-1	Grand Canyon	21	30N	4E	7500	Lower Colorado
11-R-5	Happy Jack	30	17N	9E	7630	Verde
10-R-4	Heber (p)	28	11N	15E	7600	Salt-Little Colorado
7-S-2	Inman	6	11S	10W***	7800	Gila
12-R-2	Iron Springs	22	14N	3W	6200	Williams-Verde
9-S-2	Maverick Fork (s)(p)	13	6N	27E	9050	Salt-Little Colorado
9-R-4	McKay Peak	13	7N	24E	8250	Salt Not read
9-R-2	McNary (s)	14	8N	23E	7200	Salt-Little Colorado
9-R-1	Milk Ranch	28	8N	23E	7000	Salt
12-R-3	Mingus Mountain	3	15N	2E	7100	Verde #
8-S-2	Mogollon	2	11S	19W***	7000	Frisco-Gila
11-R-4	Mormon Lake	13	18N	8E	7350	Verde #
11-R-3	Mormon Mountain(s)	14	18N	8E	7500	Verde
11-R-1	Munds Park (s)	7	18N	7E	6500	Verde
8-S-4	N-Bar Lake	16	10S	17W***	8600	Gila
8-S-5	Negrito	6	10S	16W***	8200	Gila
9-S-4	Nutrioso	23	6N	30E	8500	Salt-Frisco-Little Colorado
9-S-5	Pacheta	§ At town of Maverick, Ariz.			7800	Salt
9-N-1	Roof Butte	15	8N	6W****	8500	Little Colorado # Not read
10-T-2	Rose Canyon	15	12S	16E	7300	Gila
9-S-8	State Line	6	6S	21W***	8000	Gila-Frisco
7-S-1	Taylor Creek	20	10S	10W***	7850	Gila
9-R-3	Trout Creek	5	7N	24E	6400	Salt Not read
8-N-1	Washington Pass	Lat. 36° 05' N. Long. 108° 50' W. §			8600	Little Colorado # Not read
13-P-1	Willow Ranch	16	21N	11W	5000	Williams
10-R-1	Woods Canyon	15	11N	13E	7640	Salt-Little Colorado Discontinued
10-S-1	Workman Creek	33	6N	14E	6900	Salt

* Number indicates location of course within coordinate rectangle, thus 9-N 1 is Course #1 in coordinate rectangle 9-N.

** All in Gila and Salt River Base and Meridian except where otherwise indicated.

*** New Mexico Principal Meridian.

**** Navajo Base.

On adjacent drainage.

(s) Soil Moisture Station installed on or in vicinity of course.

§ Unsurveyed.

(p) Storage gage installed on or in vicinity of course

COOPERATIVE SNOW SURVEYS and WATER SUPPLY FORECASTS
for
A R I Z O N A
(Salt, Verde, Gila and part of Lower Colorado River Basin)

Issued

February 1, 1956

Report Prepared
by

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Soil Conservation Service
39 North Sixth Avenue
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Issued by

Salt River Valley Water Users' Association

and

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ARIZONA WATER SUPPLY OUTLOOK

February 1, 1956

*
* The overall water supply outlook is still poor *
* in spite of the recent series of storms. Much *
* additional snow will have to accumulate before *
* normal runoff can be expected. *
* *

GENERAL

The recent storms have added important amounts of snow to the watersheds. Only those courses at the lowest elevations report bare ground. However, the snow densities are very light, and the water content is considerably below normal for this date and generally well below last year at this time.

Soil moisture conditions are much better than they have been on this date in recent years. Soils in lower elevations, particularly in cinder areas, show lack of moisture below the surface foot or eighteen inches. At higher elevations, however, the entire upper part of the soil profile ranges from moist to very wet. It can be expected, therefore, that the soil will absorb less water from the snow pack this year than it has for several years past, and that a correspondingly higher proportion of the snow water will be available for runoff. Much of the recent snow is light and powdery and could be lost to evaporation if unfavorable weather conditions set in.

SNOW COVER AND WATERSHED CONDITIONS

Salt River Basin

The snow water content in the White Mountains appears to be approximately the same as last year but is still generally below average. Soil moisture data indicates that soils here are generally very wet. The snow is very dry and compares with that of last year. A snow cat breakdown prevented the making of readings in the Baldy-Big Lake area, and storm conditions delayed receipt of some other reports, so the data on this important water source area is incomplete. Forecasts included in this bulletin will necessarily reflect the incomplete data received to date.

In the Mogollon rim country, which forms the north boundary of the Salt River Drainage, present snow water content is far below last year and also far below average. This area contributed proportionally less water to the Salt River than do the White Mountains but still represents an important water source area. Recent stream flow on this drainage has been only about 80% of normal.



Verde River Basin

Snow water content on the Verde River Basin is only about 25% of that which existed on this date last year. However, the generally good soil moisture conditions will in part offset this difference. Flow of the Verde River has averaged about 75% of normal recently. Mormon Lake and Lake Mary are at very low levels, and there is no present indication of any substantial improvement in the volume of water in these lakes. Stored water for both Phoenix and Flagstaff municipal supplies probably will not increase greatly unless additional storms occur. Stock water tanks over the Verde drainage are reported to be generally low, though storage has increased in many as a result of the storms which occurred about February 1.

Gila and Frisco River Basins

Snow cover is about the same as last year but much less than average. Improved soil moisture conditions generally give hope of somewhat better runoff than occurred last year, but the deficient snow water content will not produce any large amounts of runoff.

For the second year in a row, the courses in the Santa Catalina Mountains report above normal snow pack. However, the area covered is small and located downstream from the San Carlos reservoir. They do not make an important contribution to the river system.

Other Basins

Comparable conditions exist in all other drainage basins. There is little or no snow on the Bill Williams Basin except on the peaks.

The Little Colorado River basin includes areas that join the Verde, Tonto, Salt and Frisco drainages, and the conditions on the headwaters of this river are the same as those described for these other streams.

Snow cover in the Show Low-McNary area is heavier than at this time last year. Show Low Lake is at a very low stage, and there appears little probability of substantial gains in this reservoir unless conditions improve greatly.

For the Little Colorado Basin above Lyman Dam, the prospects are very poor. Storage in the lake at this time is greater than last year, but the snow water content on the drainage is less than half that of last year. Continued deficient supplies for water users on this project are in prospect if present weather conditions hold.



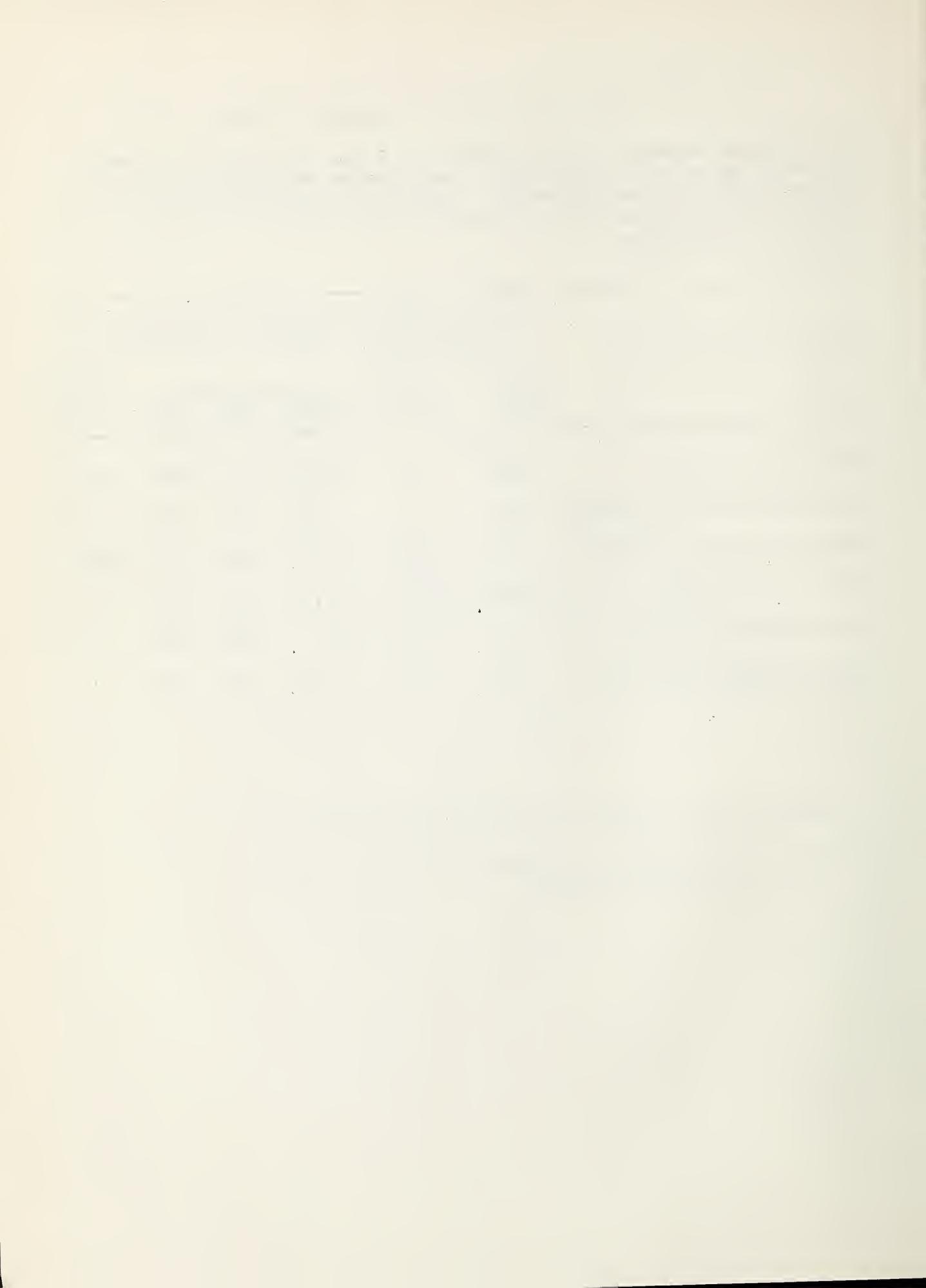
STREAM FLOW FORECASTS - FEBRUARY 1, 1956

The following summarized runoff forecasts are based principally on mountain snow cover and on the assumption that precipitation and temperature during the forecast period will be near average. Appreciable deviations from normal of temperature and/or precipitation during the forecast period will correspondingly modify these forecasts.

BASIN, STREAM AND STATION	SEASONAL STREAM FLOW IN THOUSANDS OF ACRE FEET FORECAST PERIOD JANUARY - MAY, INCLUSIVE						15-Year Average 1938-52	
	Forecast Runoff 1956	Percent 15-Year Average	Measured Runoff					
			1955	1954	1953			
Salt River at Intake	85.	22.	56.6	234.3	156.1	392.4		
Tonto River above Roosevelt 1/	10.	19.	4.9	31.4	32.4	52.2		
Verde River above Horseshoe	75.	29.	73.8	193.5	78.6	257.0		
Gila River at Virden	16.	21.	15.4	28.5	30.2	77.6		
Frisco River at Clifton	12.	17.	12.1	32.4	19.5	70.4		
Little Colorado River above Lyman Dam 1/2/	2.5	26.	0.5	2.1	2.5	9.8		

1/ Average is for less than 15 years in the 1938-52 period.

2/ Forecast period for Little Colorado River above Lyman Dam is for January-June, inclusive



SUMMARY OF FEBRUARY 1 SNOW SURVEYS AND COMPARISON OF DATA
WITH THAT OF PREVIOUS YEARS BY WATERSHED

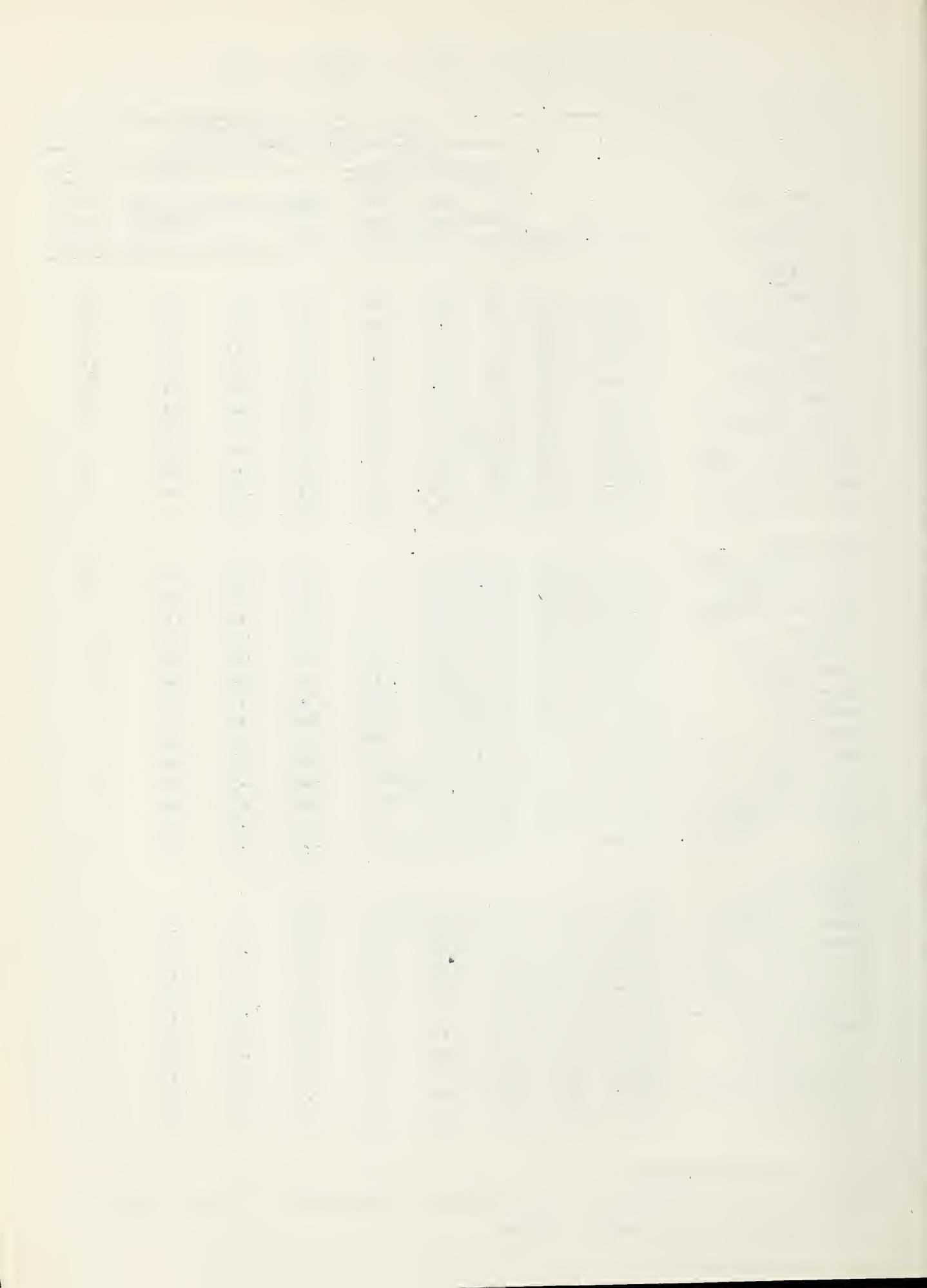
WATERSHEDS	No. of Courses	Snow Depth in 1956	Snow Water Content in Inches			1938-52 Average	Snow Density	1956 Water Content in Percent of 1955	1956 Water Content in Percent of 1955 Average
			1956	1955	1954				
Gila River	9	9.2	1.5	1.5	0.7	1.8	16	100	83
Salt River	8	12.5	2.1	3.3	2.1	3.2	17	64	66
Verde River	10	4.2	0.9	4.2	2.3	3.3	21	21	27
Williams River	3	0.0	0.0	2.6	0.9	1.3	--	--	--
Lower Colorado River	4	13.1	2.6	3.7	2.2	5.1	20	70	51
Little Colorado River	7	10.5	1.9	4.0	2.3	4.5	18	47	42



ARIZONA SNOW SURVEYS - FEBRUARY 1, 1956

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS						Pre- vious Yrs. of Record	
			1956			PAST RECORD				
			Date of Sur- vey	Water Depth (In.)	Con- tent (In.)	Water Content (In.)	1955	1954	Average	
<u>GILA RIVER</u>										
Nutrioso	9-S-4	8500	2/1	13.0	2.5	2.1	0.6	2.5	18	
Bear Wallow ^{2/3/}	10-T-1	8100	2/1	10.0	2.6	4.6	3.3	2.4	8	
Frisco Divide	8-S-1	8000	2/1	11.0	2.5	2.8	0.7	2.1	18	
State Line	9-S-8	8000	2/1	13.0	2.1	3.7	1.2	2.9	18	
Coronado Trail	9-S-7	8000	2/1	12.0	2.3	2.5	0.7	3.7	18	
Beaver Head	9-S-6	8000	2/1	13.0	1.5	2.6	1.8	3.2	18	
Taylor Creek ^{2/}	7-S-1	7850	1/31	5.0	0.5	0.0	0.0	0.7	14	
Inman ^{2/}	7-S-2	7800	1/31	6.0	0.5	0.0	0.0	0.8	10	
Rose Canyon ^{2/3/}	10-T-2	7300	2/1	6.0	1.1	3.2	2.9	0.8	8	
Mogollon ^{2/}	8-S-2	7000	2/1	6.3	1.3	0.0	1.1	-	3	
Black Canyon ^{2/}	7-S-3	6790	2/1	3.0	0.3	0.0	0.0	-	3	
<u>SALT RIVER</u>										
Ft. Apache ^{1/2/3/}	9-R-5	9160	No Survey			4.3	5.6	6.3	6	
Baldy ^{1/2/3/}	9-S-1	9125	No Survey			4.7	5.0	6.4	6	
Maverick Fork ^{2/3/}	9-S-2	9020	No Survey			5.6	4.6	7.9	6	
Nutrioso	9-S-4	8500	2/1	13.0	2.5	2.1	0.6	2.5	18	
Coronado Trail	9-S-7	8000	2/1	12.0	2.3	2.5	0.7	3.7	18	
Beaver Head	9-S-6	8000	2/1	13.0	1.5	2.6	1.8	3.2	18	
Pacheta ^{2/}	9-S-5	7800	1/31	18.0	2.9	2.9	1.7	3.7	6	
Gentry ^{2/}	10-R-5	7600	1/31	11.0	1.9	3.6	2.5	3.8	6	
Heber ^{2/}	10-R-4	7600	1/31	11.0	1.8	4.0	2.5	4.1	6	
Canyon Creek ^{2/}	10-R-3	7500	1/31	12.0	1.7	4.4	2.7	4.6	6	
McNary ^{2/3/}	9-R-2	7200	Report delayed			3.1	2.3	3.1	17	
Milk Ranch ^{2/3/}	9-R-1	7000	Report delayed			2.5	2.2	1.9	15	
Workman Creek ^{2/}	10-S-1	6900	1/31	9.0	2.4	4.4	4.6	0.0	4	
Forest Dale ^{2/3/}	10-R-6	6430	Report delayed			2.2	1.0	1.3	16	
<u>VERDE RIVER</u>										
Happy Jack ^{2/3/}	11-R-5	7630	Report delayed			3.6	-	4.3	5	
Gaddes Canyon ^{2/}	12-R-4	7600	1/30	8.0	2.6	2.9	3.6	-	2	
Mormon Mountain ^{2/}	11-R-3	7500	1/30	11.0	2.7	5.6	3.4	6.0	6	
Mormon Lake ^{1/2/}	11-R-4	7350	1/30	7.0	1.1	5.4	3.5	6.6	9	
Fort Valley ^{1/2/}	11-P-2	7350	2/1	8.0	1.5	3.0	1.2	3.7	9	
Mingus Mountain ^{2/}	12-R-3	7100	1/30	T	T	2.7	1.2	1.9	9	
Chalender ^{2/}	12-P-1	7100	2/1	5.0	0.5	4.4	1.8	4.1	9	
Casner Park ^{2/}	11-R-2	6930	1/30	4.0	0.8	5.7	3.2	4.9	6	
Munds Park ^{2/}	11-R-1	6500	1/30	T	T	4.8	2.3	2.7	6	
Iron Springs ^{1/2/}	12-R-2	6200	1/30	0.0	0.0	4.5	0.8	1.4	10	
Camp Wood ^{2/}	12-R-1	5700	1/31	0.0	0.0	2.8	2.1	1.4	10	

^{1/} On adjacent drainage.^{2/} All averages are for less than 15 years of record in the 1938-52 period.^{3/} Not included in watershed average.

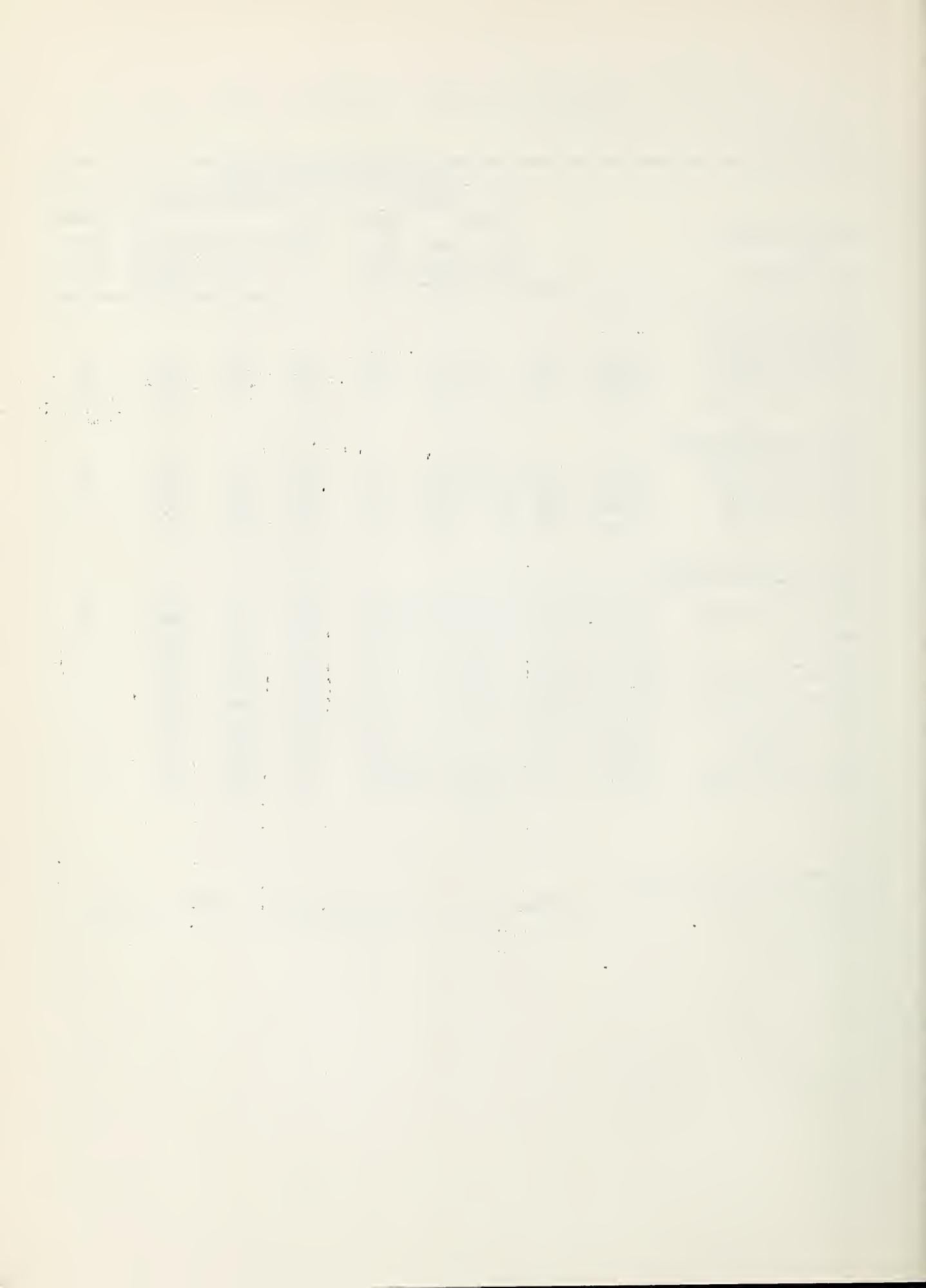


ARIZONA SNOW SURVEYS - FEBRUARY 1, 1956

DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS							
			1956				PAST RECORD			
			Date of Sur- vey	Water Snow Depth (In.)	Con- tent (In.)	Water Content (In.)	1955	1954	Average	Prev- ious Yrs. of Record
<u>WILLIAMS RIVER</u>										
Iron Springs <u>2/</u>	12-R-2	6200	1/30	0.0	0.0	4.5	0.8	1.4	-	10
Camp Wood <u>1/2/</u>	12-R-1	5700	1/31	0.0	0.0	2.8	2.1	1.4	-	10
Willow Ranch <u>2/</u>	13-P-1	5000	2/1	0.0	0.0	0.0	-	1.2	-	10
<u>LOWER COLORADO RIVER</u>										
Bright Angel <u>2/</u>	12-N-1	8400	1/31	30.0	6.6	4.7	4.3	9.2	-	8
Grand Canyon <u>2/</u>	11-P-1	7500	2/1	10.0	1.7	2.5	1.4	3.3	-	8
Fort Valley <u>2/</u>	11-P-2	7350	2/1	8.0	1.5	3.0	1.2	3.7	-	9
Chalender <u>1/2/</u>	12-P-1	7100	2/1	5.0	0.5	4.4	1.8	4.1	-	9
<u>LITTLE COLORADO RIVER</u>										
Nutrioso	9-S-4	8500	2/1	13.0	2.5	2.1	0.6	2.5	-	18
Happy Jack <u>2/3/</u>	11-R-5	7630	Report delayed		3.6	-	4.3	-	4.3	5
Gentry <u>2/</u>	10-R-6	7600	1/31	11.0	1.9	3.6	2.5	3.8	-	6
Heber <u>2/</u>	10-R-4	7600	1/31	11.0	1.8	4.0	2.5	4.1	-	6
Canyon Creek <u>2/</u>	10-R-3	7500	1/31	12.0	1.7	4.4	2.7	4.6	-	6
Mormon Mountain <u>2/</u>	11-R-3	7500	1/30	11.0	2.7	5.6	3.4	6.0	-	6
Mormon Lake <u>2/</u>	11-R-4	7350	1/30	7.0	1.1	5.4	3.5	6.6	-	9
Fort Valley <u>2/</u>	11-P-2	7350	2/1	8.0	1.5	3.0	1.2	3.7	-	9
McNary <u>2/3/</u>	9-R-2	7200	Report delayed		3.1	2.3	3.1	-	3.1	17
Forest Dale <u>2/3/</u>	10-R-6	6430	Report delayed		2.2	1.0	1.3	-	1.3	16

1/ On adjacent drainage.

2/ All averages are for less than 15 years of record in the 1938-52 period.



ARIZONA SNOW SURVEYS - DELAYED REPORTS RECEIVED
 SINCE LAST BULLETIN
 (JANUARY 15, 1956)

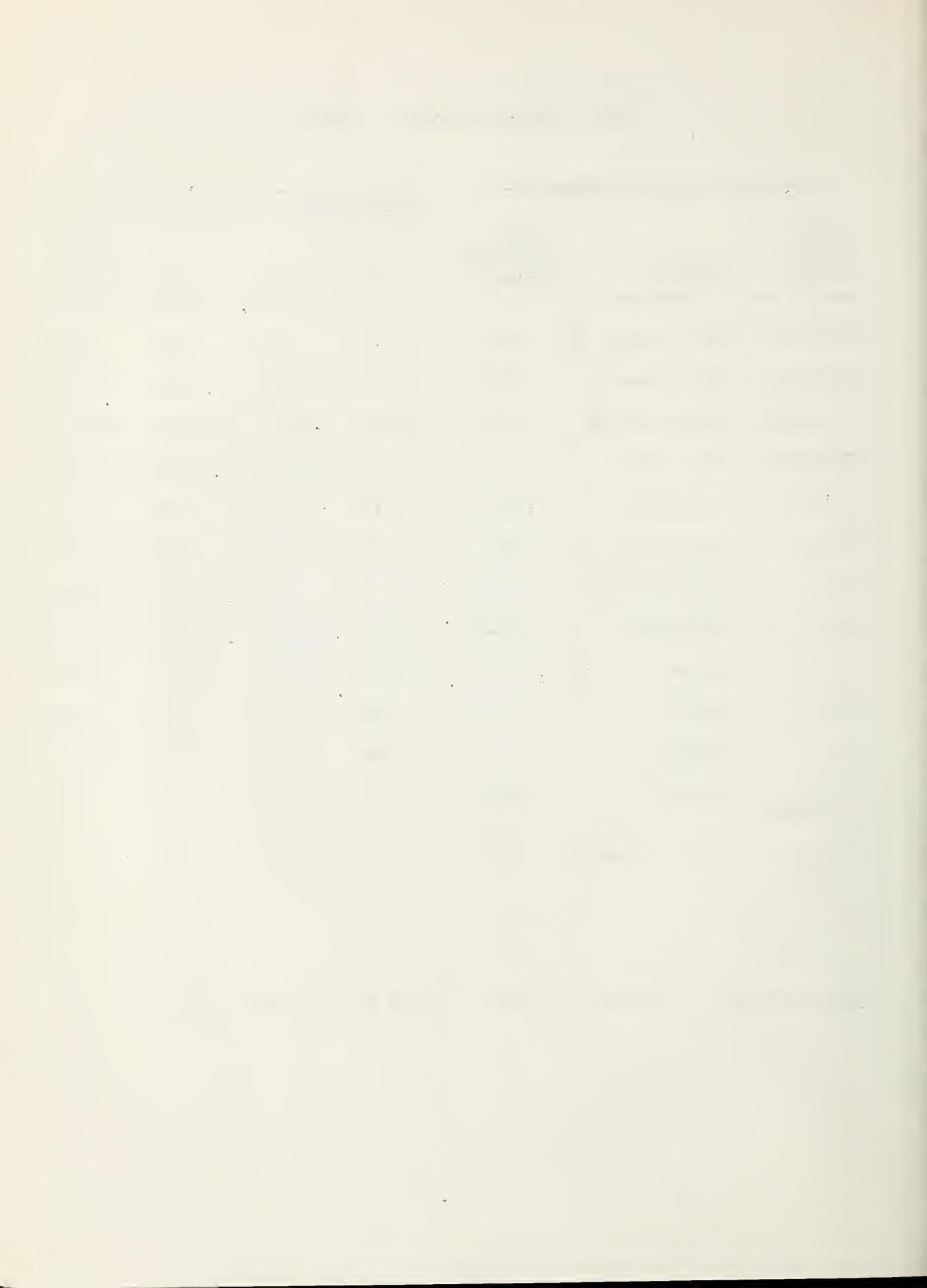
DRAINAGE BASIN and SNOW COURSE	No.	Elev.	SNOW COVER MEASUREMENTS - 1956		
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)
<u>GILA RIVER</u>					
Black Canyon	7-S-3	6790	1/15	0.0	0.0
<u>SALT RIVER</u>					
Pacheta	9-S-5	7800	1/15	0.0	0.0
<u>VERDE RIVER</u>					
Iron Springs	12-R-2	6200	1/15	0.0	0.0
<u>WILLIAMS RIVER</u>					
Iron Springs	12-R-2	6200	1/15	0.0	0.0



STATUS OF RESERVOIR STORAGE - FEBRUARY 1, 1956

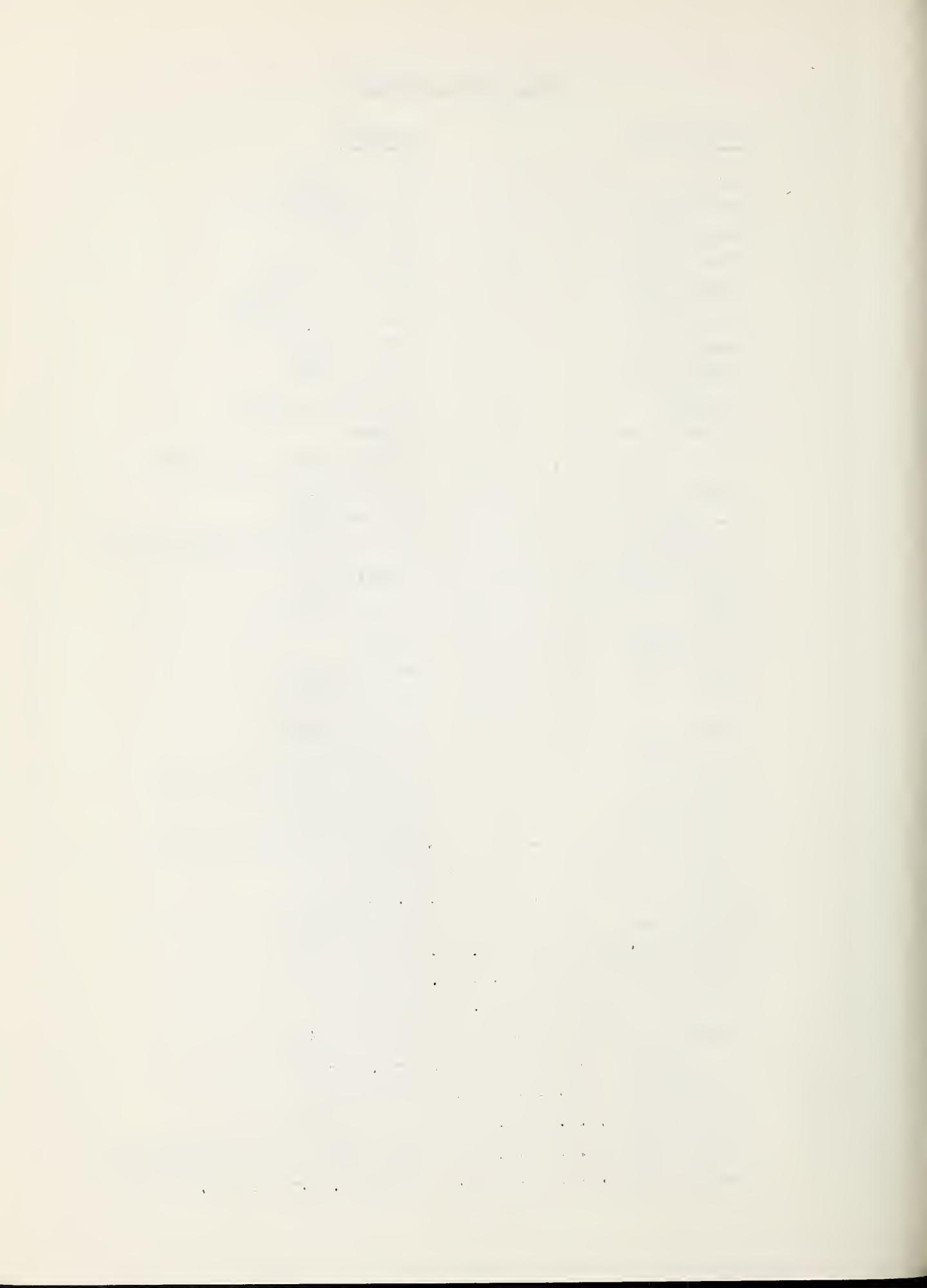
BASIN and STREAM	RESERVOIR	USABLE CAPACITY 1000s AF	USABLE STORAGE - 1000 ACRE FEET			
			1956	1955	1954	15-Year Average 1938-52
Agua Fria	Lake Pleasant <u>1/</u>	163.8	27.8	23.3	32.0	21.1
Colorado	Lake Havasu <u>1/</u>	688.0	605.3	613.0	611.7	554.6
Colorado	Lake Mohave <u>1/</u>	1,810.0	1,645.2	1,653.0	1,684.0	1,045.2
Colorado	Lake Mead	27,207.0	11,231.0	12,305.0	16,501.0	19,438.0
Gila	San Carlos	1,205.0	75.0	38.0	0.0	167.1
Verde	Bartlett <u>1/</u>	180.0	75.7	54.0	4.0	48.7
Verde	Horseshoe <u>1/</u>	143.0	2.5	1.8	2.0	15.5
Salt	Roosevelt	1,381.6	216.0	528.0	611.0	422.4
Salt	Apache	245.1	243.3	222.0	244.0	179.5
Salt	Canyon	57.8	53.6	18.5	54.0	29.3
Salt	Saguaro	69.8	66.8	53.0	35.0	19.2
Little Colorado	Lyman <u>1/</u>	30.6	8.3	1.7	0.6	7.8
Little Colorado	Show Low Lake <u>1/</u>	5.1	1.2	---	---	---

1/ Average is for less than 15 years of record in the 1938-52 period.



LIST OF SNOW SURVEYORS

<u>SNOW COURSE</u>	<u>SURVEYOR</u>
Baldy	SCS and SRVWU
Bear Wallow	J. R. Brinkley
Beaver Head	Jess Burke
Black Canyon	Robert M. White
Bright Angel	Hillis and Hillis
Camp Wood	Mrs. C. C. Merritt
Canyon Creek	SCS and SRVWU
Casner Park	SCS and SRVWU
Chalender	Oleson and Gossard
Coronado Trail	McAdams
Forest Dale	Robinson, Karty and Bread
Frisco Divide	Weissenborn
Ft. Apache	SCS and SRVWU
Fort Valley	Rocky Mt. F. & R. Exp. Station
Gaddes Canyon	Richard Enz
Gentry	SCS and SRVWU
Grand Canyon	Lynch
Happy Jack	Emil Ryberg
Heber	SCS and SRVWU
Inman	C. H. McCauley
Iron Springs	Ernest Saxby
McMary	Robinson, Karty and Bread
Maverick Fork	SCS and SRVWU
Milk Ranch	Robinson, Karty and Bread
Mingus Mountain	Richard Emz
Mogollon	J. R. Wray
Mormon Lake	SCS and SRVWU
Mormon Mountain	SCS and SRVWU
Munds Park	SCS and SRVWU
Nutrioso	McAdams
Pacheta	Foch Phillips
Rose Canyon	J. R. Brinkley
State Line	Weissenborn
Taylor Creek	C. H. McCauley
Willow Ranch	Tiny Miller and LeRoy Tingstrom
Workman Creek	Rocky Mt. F. & R. Exp. Station



The following organizations cooperate in the Arizona snow survey work:

FEDERAL

Department of Agriculture

Soil Conservation Service

Forest Service

Apache Forest

Coconino Forest

Coronado Forest

Gila Forest

Kaibab Forest

Prescott Forest

Rocky Mountain Forest and Range Experiment Station

Department of Commerce

Weather Bureau

Arizona Section

Department of Interior

Bureau of Reclamation

Region III

Geological Survey

Arizona District

Bureau of Indian Affairs

Fort Apache Reservation

National Park Service

Grand Canyon National Park

Gila Water Commissioner, Safford, Arizona

IRRIGATION PROJECTS

Salt River Valley Water Users' Association

Phoenix, Arizona

San Carlos Irrigation and Drainage District

Coolidge, Arizona

SOUTHWEST LUMBER MILLS, INC., McNary, Arizona

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.



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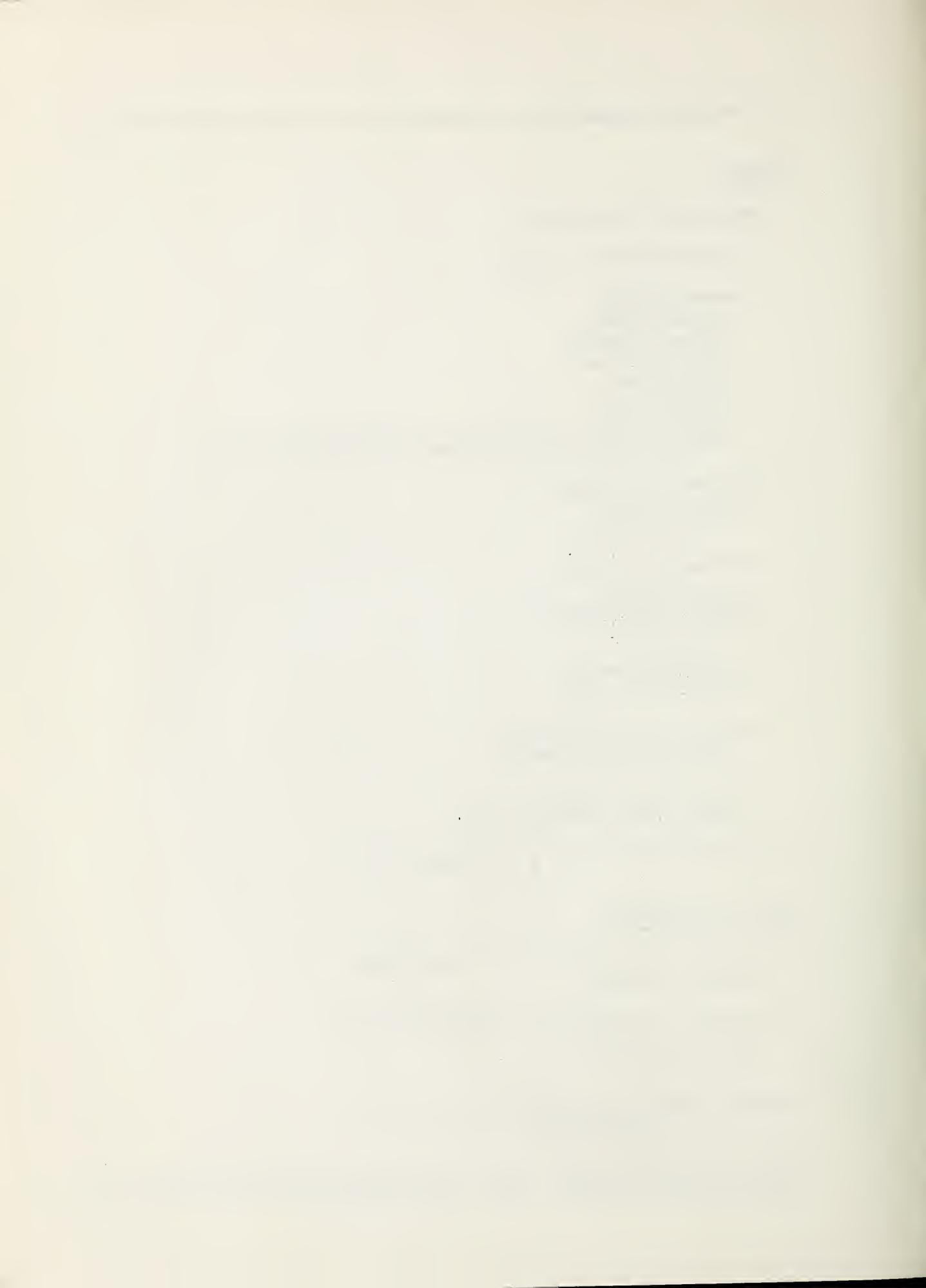
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Federal - State - Private
COOPERATIVE SNOW SURVEYS

—
Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

—
“WATER IS THE WEST'S GREATEST RESOURCE”